Q.PEAK DUO BLK-G6+
330-345
ENDURING HIGH PERFORMANCE

Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.5%.

INNOVATIVE ALL-WEATHER TECHNOLOGY
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

ENDURING HIGH PERFORMANCE
Long-term yield security with Anti LID and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.

EXTREME WEATHER RATING
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

A RELIABLE INVESTMENT
Inclusive 25-year product warranty and 25-year linear performance warranty².

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

¹ APT test conditions according to IEC/TS 62804-1:2015, method B (−1500 V, 168 h)
² See data sheet on rear for further information

THE IDEAL SOLUTION FOR:
Rooftop arrays on residential buildings

Engineered in Germany
MECHANICAL SPECIFICATION

Format 68.5 x 40.6 x 1.26 in (including frame)  
(1740 x 1030 x 32 mm)

Weight 43.9 lbs (19.9 kg)

Front Cover 0.13 in (3.2 mm) thermally pre-stressed glass  
with anti-reflection technology

Back Cover Composite film

Frame Black anodized aluminum

Cell 6 x 20 monocrystalline Q.ANTUM solar half cells

 Junction Box 2.09-3.98 x 1.26-2.36 x 0.59-0.71 in (63-101 x 32-60 x 15-18 mm), Protection class IP67, with bypass diodes

Connector Stäubli MC4, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-6, Tongling TL-Cable015, JMTMY JM601, IP68 or Friends PV2e, IP67

ELECTRICAL CHARACTERISTICS

POWER CLASS 330 335 340 345

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5W / −0W)

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>P_{PMPP} [W]</th>
<th>330</th>
<th>335</th>
<th>340</th>
<th>345</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current</td>
<td>I_{SC} [A]</td>
<td>10.41</td>
<td>10.47</td>
<td>10.52</td>
<td>10.58</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>V_{OC} [V]</td>
<td>40.15</td>
<td>40.41</td>
<td>40.66</td>
<td>40.92</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>I_{MPP} [A]</td>
<td>9.91</td>
<td>9.97</td>
<td>10.02</td>
<td>10.07</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V_{MPP} [V]</td>
<td>33.29</td>
<td>33.62</td>
<td>33.94</td>
<td>34.26</td>
</tr>
<tr>
<td>Efficiency</td>
<td>\eta [%]</td>
<td>≥ 18.4</td>
<td>≥ 18.7</td>
<td>≥ 19.0</td>
<td>≥ 19.3</td>
</tr>
</tbody>
</table>

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT

| Power at MPP | P_{PMPP} [W] | 2470 | 250.7 | 254.5 | 258.2 |
| Short Circuit Current | I_{SC} [A] | 8.39 | 8.43 | 8.48 | 8.52 |
| Open Circuit Voltage | V_{OC} [V] | 37.86 | 38.10 | 38.34 | 38.59 |
| Current at MPP | I_{MPP} [A] | 7.80 | 7.84 | 7.89 | 7.93 |
| Voltage at MPP | V_{MPP} [V] | 31.66 | 31.97 | 32.27 | 32.57 |

Note: Values are at Standard Test Conditions (STC): 1000 W/m², 25 ± 2 °C, AM 1.5.

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

TEMPERATURE COEFFICIENTS

| Temperature Coefficient of I_{SC} \( \alpha \) [% / K] | +0.04 | Temperature Coefficient of V_{OC} \( \beta \) [% / K] | −0.27 |
| Temperature Coefficient of P_{PMPP} \( \gamma \) [% / K] | −0.36 | Normal Module Operating Temperature \( NMOT \) [°F] | 109 ± 5.4 (43 ± 3 °C) |

PROPERTIES FOR SYSTEM DESIGN

| Maximum System Voltage | V_{SYS} [V] | 1000 (IEC)/1000 (UL) |
| Maximum Series Fuse Rating | A [DC] | 20 |
| Max. Design Load, Push/Pull | lbs/ft² | 75 (3600 Pa)/55 (2667 Pa) |
| Max. Test Load, Push/Pull | lbs/ft² | 113 (5400 Pa)/84 (4000 Pa) |

QUALIFICATIONS AND CERTIFICATES


Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

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